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23353 7590 07/01/2008
RADER FISHMAN & GRAUER PLLC
LION BUILDING
1233 20TH STREET N.W., SUITE 501
WASHINGTON, DC 20036

EXAMINER	
PYZUCHA, MICHAEL J.	
ART UNIT	PAPER NUMBER
2137	DATE MAILED: 07/01/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,186	02/26/2002	Akira Kimura	SON-2356	4346

TITLE OF INVENTION: AUTHENTICATION SYSTEM AND METHOD, IDENTIFICATION INFORMATION INPUTTING METHOD AND APPARATUS ANDS PORTABLE TERMINAL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/01/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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LION BUILDING
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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or by facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)

(Signature)

(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/082,186	02/26/2002	Akira Kimura	SON-2356	4346

TITLE OF INVENTION: AUTHENTICATION SYSTEM AND METHOD, IDENTIFICATION INFORMATION INPUTTING METHOD AND APPARATUS ANDS PORTABLE TERMINAL

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	10/01/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
PYZOCHA, MICHAEL J	2137	713-168000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.
<input type="checkbox"/> Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.	1_____
<input type="checkbox"/> "Fee Address" indication (or "Fee Address" indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.	2_____
	3_____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE _____

(B) RESIDENCE: (CITY AND STATE OR COUNTRY) _____

Please check the appropriate assignee category or categories (will not be printed on the patent): Individual Corporation or other private group entity Government

4a. The following fee(s) are submitted:	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)
<input type="checkbox"/> Issue Fee	<input type="checkbox"/> A check is enclosed.
<input type="checkbox"/> Publication Fee (No small entity discount permitted)	<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.
<input type="checkbox"/> Advance Order - # of Copies _____	<input type="checkbox"/> The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number _____ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)	<input type="checkbox"/> a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.	<input type="checkbox"/> b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).
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This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS; SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 954 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 954 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability	Application No. 10/082,186	Applicant(s) KIMURA, AKIRA
	Examiner MICHAEL PYZOWA	Art Unit 2137

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTO-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to Appeal Brief filed 04/07/2008.

2. The allowed claim(s) is/are 1-5,8-17,20-24,35-38 and 41-46.

3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some* c) None of the:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date _____.

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
- 4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
- 5. Notice of Informal Patent Application
- 6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
- 7. Examiner's Amendment/Comment
- 8. Examiner's Statement of Reasons for Allowance
- 9. Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Christopher Tobin (Reg. No. 40,290) on 06/25/2008.

The application has been amended as follows:

1. (Currently Amended) An authentication system, said authentication system comprising:

a portable card terminal, including:

first identification information storage means having a first identification information stored therein for discriminating said portable card terminal, said first identification information comprising a portable card terminal identifier that uniquely identifies the portable card terminal,

operating means for inputting a second identification information associated with said first identification information,

encryption means for encrypting the second identification information input by said operating means based on encryption key information, and

first communication means for communication with an authentication device, wherein said communication includes transmitting the first identification information to said authentication device and receiving said encryption key information from the authentication device in response to transmitting the first identification information;

said authentication device, provided independently of said portable card terminal for communication with said portable card terminal, the authentication device including:

second identification information storage means for storage of the first identification information and the second identification information therein,

encryption key information generating means for generating said encryption key information, wherein said encryption key information comprises a random number, and

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wherein said encryption key information is generated in response to receiving the first identification information from said portable terminal,

second communication means for communication with said portable card terminal, and

comparator authentication means for comparing and authenticating the second identification information encrypted by said encryption means based on said encryption key information;

wherein said portable card terminal encrypts the second identification information input from said operating means, based on said encryption key information received from said authentication device, the so-encrypted second identification information is transmitted through said first communication means to said authentication device; and

wherein, in said authentication device, the encrypted second identification information received through said second communication means and the second identification information stored by said second identification information storage means are compared to each other based on said encryption key information to perform the authentication; and

wherein said portable card terminal includes a transient storage means for storing the second identification information input by said operating means until authentication of said portable card terminal by said authentication device.

2. (Previously Presented) The authentication system according to claim 1 wherein said authentication device includes:

decoding means for decoding the second identification information encrypted by said encrypting means based on said encryption key information,
said authentication device decoding the received encrypted second identification information based on said encryption key information, said authentication device comparing the decoded second identification information to the second identification information stored in said second identification information storage means, by way of performing the authentication.

3. (Previously Presented) The authentication system according to claim 2, wherein said second identification information is a password of a service user made up of a preset letter string or a preset string of numerical figures,

4. (Previously Presented) The authentication system according to claim 3 for authenticating the service user to whom preset services are offered from a service provider in a credit sale system, an inter-account instant payment system and in E-commerce carried out over a preset network, wherein

 said portable card terminal is a card-shaped portable terminal issued by said service provider to said service user,

 said authentication device being contained in a host computer in which said service provider authenticates usage by said service user, and

said service user being authenticated by said authentication device authenticating said portable card terminal and that said service user is a true owner of the portable card terminal.

5. (Previously Presented) The authentication system according to claim 4, wherein said first and second communication means are wireless communication means.

6. (Cancelled).

7. (Cancelled).

8. (Currently Amended) The authentication system according to claim [6] 1, wherein said second identification information stored in said transient storage means is erased every preset time interval.

9. (Currently Amended) The authentication system according to claim [6] 1, wherein said operating means in said portable card terminal includes means for erasing the second identification information stored in said transient storage means.

10. (Previously Presented) The authentication system according to claim 4, wherein said operating means in said portable card terminal includes a plurality of input locations respectively used for indicating letters or numerical figures for inputting said

second identification information, and wherein the input locations corresponding to individual ones of the letters or numerical figures are variable, such that individual ones of the letters or numerical figures are resident at one of the plurality of input locations when said second identification information is input a first time, and are resident at another of the plurality of input locations when said second identification information is input a second time.

11. (Previously Presented) The authentication system according to claim 10, wherein the plurality of input locations are varied prior to the inputting of said second identification information.

12. (Previously Presented) The authentication system according to claim 4, wherein said operating means in said portable card terminal includes a display unit for displaying letters and a selection unit for selecting the letters displayed on said display unit, and wherein the second identification information input by said operating means is made up by a string of letters selected by said selection unit from among plural letters sequentially displayed on said display unit.

13. (Currently Amended) An authentication method in which a portable card terminal is authenticated by an authentication device provided independently of said portable card terminal, said method comprising

an operating step of inputting a second identification information associated with a first identification information that discriminates said portable card terminal and that is stored in a first identification information storage means of said portable card terminal, said first identification information comprising a portable card terminal identifier that uniquely identifies the portable card terminal,

an encryption key information generating step of generating an encryption key information by transmitting the first identification information from the portable card terminal to the authentication device, and receiving said encryption key information from the authentication device in response to transmitting the first identification information, wherein said encryption key information is generated by the authentication device in response to receiving the first identification information from the portable card terminal,

an encrypting step of encrypting the second identification information input at said operating step, based on the encryption key information generated in said encryption key information generating step, and

a comparison authentication step of comparing the second identification information encrypted in said encrypting step to the second identification information as stored in a second identification information storage means to perform the authentication, and

a transient storage step of transiently storing the second identification information input in said operating step until authentication of said portable card terminal by said authentication device.

14. (Previously Presented) The authentication method according to claim 13 further comprising

a decoding step of decoding the second identification information, encrypted in said encrypting step, based on said encryption key information,

the encrypted second identification information being decoded in said decoding step based on said encryption key information, and the decoded second identification information being compared to the second identification information stored in said second identification information storage means by way of performing the authentication.

15. (Previously Presented) The authentication method according to claim 14, wherein the encryption key information comprises a random number.

16. (Previously Presented) The authentication method according to claim 15 for authenticating a service user to whom preset services are offered from a service provider in a credit sale system, an inter-account instant payment system and in E-commerce carried out over a preset network, wherein

said portable card terminal is a card-shaped portable terminal issued by said service provider to said service user,

said authentication device being an authentication device contained in a host computer in which said service provider authenticates usage by said service user, and

said service user being authenticated by said authentication device authenticating said portable card terminal and that said service user is a true owner of the portable card terminal.

17. (Previously Presented) The authentication method according to claim 16, wherein said portable card terminal and the authentication device are interconnected by wireless communication means.

18. (Cancelled).

19. (Cancelled).

20. (Currently Amended) The authentication method according to claim [18] 13, wherein said second identification information stored in said transient storage step is erased every preset time interval.

21. (Currently Amended) The authentication method according to claim [18] 13, wherein said operating step includes a step of erasing the second identification information stored in said transient storage step.

22. (Previously Presented) The authentication method according to claim 16, wherein inputting said second identification information comprises using a plurality of

input locations respectively indicating letters or numerical figures for inputting said second identification information, and wherein the input locations corresponding to individual ones of the letters or numerical figures are variable, such that individual ones of the letters or numerical figures are resident at one of the plurality of input locations when said second identification information is input a first time, and are resident at another of the plurality of input locations when said second identification information is input a second time.

23. (Previously Presented) The authentication method according to claim 22, wherein the plurality of input locations are varied prior to inputting of said second identification information.

24. (Previously Presented) The authentication method according to claim 16, wherein said operating step includes a display step of displaying letters and a selection step of selecting the letters displayed in said display step, and wherein the second identification information input by said operating step is made up by a string of letters selected in said selection step from among plural letters sequentially displayed in said display step.

25. (Canceled)

26. (Canceled)

27. (Canceled)

28. (Canceled)

29. (Canceled)

30. (Canceled)

31. (Canceled)

32. (Canceled)

33. (Canceled).

34. (Canceled)

35. (Currently Amended) A portable card terminal authenticated by an authentication device, comprising,
first identification information storage means for storing a first identification information for discriminating said portable card terminal, said first identification

information comprising a portable card terminal identifier that uniquely identifies the portable card terminal,

operating means for inputting a second identification information associated with said first identification information,

communication means for communication with said authentication device wherein said communication including transmitting the first identification information from the portable card terminal to the authentication device, and receiving encryption key information from the authentication device in response to transmitting the first identification information, and

encrypting means for encrypting the second identification information input by said operating means based on said encryption key information received from said authentication device, wherein said encryption key information is generated by the authentication device in response to receiving the first identification information from the portable card terminal, and

transient storage means for storing the second identification information input by said operating means until authentication of said portable card terminal by said authentication device.

36. (Previously Presented) The portable card terminal according to claim 35, wherein said encryption key information comprises a random number.

37. (Previously Presented) The portable card terminal according to claim 35, wherein the portable card terminal is issued to a service user by a service provider to offer preset services for said service user in a credit sale system, an inter-account instant payment system and E-commerce carried out over a preset network and is in the form of a card.

38. (Previously Presented) The portable card terminal according to claim 37, wherein said communication means are wireless communication means.

39. (Cancelled).

40. (Cancelled).

41. (Currently Amended) The portable card terminal according to claim [39] 35, wherein said second identification information stored in said transient storage means is erased every preset time interval.

42. (Currently Amended) The portable card terminal according to claim [39] 35, wherein said operating means in said portable card terminal includes means for erasing the second identification information stored in said transient storage means.

43. (Previously Presented) The portable card terminal according to claim 37, wherein said operating means includes a plurality of input locations respectively used for indicating letters or numerical figures for inputting said second identification information, and wherein the input locations corresponding to individual ones of the letters or numerical figures are variable, such that individual ones of the letters or numerical figures are resident at one of the plurality of input locations when said second identification information is input a first time, and are resident at another of the plurality of input locations when said second identification information is input a second time.

44. (Previously Presented) The portable card terminal according to claim 43, wherein the plurality of input locations are varied prior to the inputting of said second identification information.

45. (Previously Presented) The portable card terminal according to claim 37, wherein said operating means includes a display unit for displaying letters and a selection unit for selecting the letters displayed in said display unit, and wherein the second identification information input by said operating means is made up by a string of letters selected in said selection unit from among plural letters sequentially displayed on said display unit.

46. (Currently Amended) An authentication system made up by a portable card terminal and an authentication device provided independently of said portable card

terminal for communication with said portable card terminal, said authentication system comprising:

 said portable card terminal, including

 first identification information storage means having a first identification information stored therein for discriminating said portable card terminal, said first identification information comprising a portable card terminal identifier that uniquely identifies the portable card terminal,

 operating means including display means for irregularly displaying letters included in a group of letters and selection means for selecting the letters making up a second identification information from among the letters irregularly displayed on said display means, said operating means inputting the second identification information associated with said first identification information,

 encryption means for encrypting the second identification information input by said operating means based on an encryption key information, and

 first communication means for communication with said authentication device, wherein said communication includes transmitting the first identification information to said authentication device and receiving said encryption key information from the authentication device in response to transmitting the first identification information;

 said authentication device, including

 second identification information storage means having the first identification information and the second identification information stored therein,

encryption key information generating means for generating said encryption key information, wherein said encryption key information is generated in response to receiving the first identification information from said portable terminal,

second communication means for communication with said portable card terminal, and

comparator authentication means for comparing the second identification information encrypted by said encryption means to the second identification information stored in the second identification information storage means; wherein

said portable card terminal encrypts the second identification information input from said operating means, based on said encryption key information received from said authentication device through said first communication means, and the so-encrypted second identification information is transmitted through said first communication means to said authentication device; and

wherein, in said authentication device, the encrypted second identification information received through said second communication means and the second identification information stored by said second identification information storage means are compared to each other based on said encryption key information to perform the authentication; and

wherein said portable card terminal includes a transient storage means for storing the second identification information input by said operating means until authentication of said portable card terminal by said authentication device.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: The prior art fails to teach or suggest a method of securely transferring authentication information between an authentication device and a portable card terminal that includes a transient storage means that stores second identification information (e.g. PIN) input by operating means until authentication of the portable card terminal by the authentication device.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL PYZOCZA whose telephone number is (571)272-3875. The examiner can normally be reached on Monday-Thursday, 7:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MJP

/Emmanuel L. Moise/
Supervisory Patent Examiner, Art Unit 2137